

PERSONAL INFORMATION



Simona Mutascio

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Date of birth 26/11/1987

EDUCATION AND TRAINING

2016-present

PhD Student in Applied Life and Health Sciences University of Verona, Verona (Italy)

Tutor: Prof. Donato Zipeto

12/2017 Winner of "PhD Mobility program" fellowship.

From 01/2018 to 04/2018 guest in Cellular and Viral Immunology lab, Department of Pharmacology, School of Medicine at the University of La Laguna (Tenerife, Spain), directed by Prof. Agustin Valenzuela-Fernandez.

2012-2015

Master's Degree in Cell and Molecular biology, University of Rome "Tor Vergata", Rome (Italy)

Tutor: Prof. Claudio Sette

Thesis title: "Role of PTBP1 splicing factor in bladder cancer"

Voting degree: 110/110 cum laude

From 03/2014 to 05/2015 Training pre-Master's Degree in Molecular biology lab at "Fondazione Santa Lucia", Via del Fosso di Fiorano, Rome (Italy)

PERSONAL SKILLS

Mother tongue: Italian

Other language: English Understanding, speaking and writing B2 level

Job related skills: Cell cultures, CRISPR/Cas9 based on plasmid and lentiviral vectors, gene cloning, RNA interference, RNA and protein extraction, PCR and Real-Time PCR, Western Blot, Immunofluorescence, Nucleofection, Lipofection, Viral transduction, Viral infection, Viral titration.

PUBLICATIONS

Deiana M, Dalle Carbonare L, Serena M, Cheri S, **Mutascio S**, Gandini A, Innamorati G, Romanelli MG, Mottes M, Zipeto D and Valenti MT. The RUNT domain of the transcription factor RUNX2 promotes the osteotropism of melanoma cells. Submitted to World Journal of Stem Cells.

Fochi S, Bergamo E, Serena M, **Mutascio S**, Journo C, Mahieux R, Bertazzoni U, Zipeto D and Romanelli MG. TRAF3 is required for NF- κ B pathway activation mediated by HTLV Tax proteins. Front Microbiol. 2019. doi: 10.3389/fmicb.2019.01302

Zipeto D, Serena M, **Mutascio S**, Parolini F, Diani E, Guizzardi E, Muraro V, Lattuada E, Rizzardo S, Malena M, Lanzafame M, Malerba G, Romanelli MG, Tamburin S, Gibellini D. HIV-1-Associated Neurocognitive Disorders: Is HLA-C Binding Stability to β_2 -Microglobulin a Missing Piece of the Pathogenetic Puzzle? Front Neurol. 2018. doi: 10.3389/fneur.2018.00791.

Bielli P, Panzeri V, Lattanzio R, **Mutascio S**, Pieraccioli M, Volpe E, Pagliarulo V, Piantelli M, Giannantoni A, Di Stasi SM, Sette C. The splicing factor PTBP1 promotes expression of oncogenic splice variants and predicts poor prognosis in patients with non-muscle invasive bladder cancer. Clin Cancer Res. 2018. doi: 10.1158/1078-0432.CCR-17-3850

Fochi S, **Mutascio S**, Bertazzoni U, Zipeto D, Romanelli MG. HTLV Deregulation of the NF- κ B Pathway: An Update on Tax and Antisense Proteins Role. Front Microbiol. 2018. doi: 10.3389/fmicb.2018.00285.

CONGRESS ORAL PRESENTATIONS

- Study of HLA-C binding stability in HIV-1 infection and in cognitive disorders – Mutascio S., Stefani C., Fochi S., Romanelli M.G., Zipeto D. - selected for the oral presentation at International Conference on Virology – Rome (Italy). – 24 – 25 July, 2019.

- TRAF3 involvement in the NF- κ B pathway deregulation mediated by HTLV-1 Tax protein - Mutascio S., Fochi S., Lorenzi P., Galasso M., Zipeto D., Romanelli M. G. – selected for the oral presentation at SIBBM congress 'When and where: temporal and spatial regulation of biological processes' – Rome (Italy). 20 – 22 June, 2018

CONGRESS ABSTRACTS

- Involvement of HLA-C binding stability to β_2 -microglobulin in HIV-1 infection - Mutascio S., Zipeto D., Parolini F., Stefani C., Fochi S., Romanelli M.G. - Abstract submitted to IHV2019 'Progress in HIV/AIDS: Challenges in 2020' – Baltimore (Maryland, USA). 4 – 5 October, 2019.

- HLA-C and HIV-1: a matter of stability – Zipeto D., Mutascio S., Stefani C., Serena M., Parolini F., Fochi S., Romanelli M.G., Gibellini D. - Abstract submitted to SIV Italian Society for Virology Congress – Padua (Italy). 10 – 12 September, 2019.

- Study of HLA-C binding stability in HIV-1 infection and in cognitive disorders – Mutascio S., Stefani C., Fochi S., Romanelli M.G., Zipeto D. – Abstract submitted to International Conference on Virology – Rome (Italy). 24 – 25 July, 2019.
- HLA-C and HIV-1: a matter of stability – Zipeto D., Mutascio S., Stefani C., Serena M., Parolini F., Fochi S., Gibellini D., Romanelli M.G. – Abstract presented at International Conference on Immunity and Immunochemistry – San Francisco (California, USA). 1-3 July, 2019.
- TRAF3 involvement in the NF- κ B pathway deregulation mediated by HTLV-1 Tax protein - Mutascio S., Fochi S., Lorenzi P., Galasso M., Zipeto D., Romanelli M. G. - Abstract presented at SIBBM congress 'When and where: temporal and spatial regulation of biological processes' – Rome (Italy). 20 – 22 June, 2018, p 21.
- HLA-C expression levels and binding stability to β 2m are involved in HIV-1 infectivity - Parolini F., Biswas P., Serena M., Sironi F., Mutascio S., Muraro V., Guizzardi E., Malnati M., Beretta A., Romanelli M. G., Zipeto D. - Abstract presented at IAS2017 Conference - Paris (France). 23 - 26 July, 2017, p 226 - 227.
- CRISPR/Cas9 to study virus-host interactions - Parolini F., Mutascio S., Serena M., Fochi S., Romanelli M. G., Zipeto D. - Abstract presented at SIBBM congress 'From Single Cells to 3D-Cell Culture' – Milan (Italy). 14 – 16 June, 2017, p 68.
- Host-virus interactions: HTLV antisense regulatory proteins play a role in the dysregulation of NF- κ B pathway - Fochi S., Mutascio S., Parolini F., Zipeto D., Romanelli M. G. - Abstract presented at SIBBM congress 'From Single Cells to 3D-Cell Culture' – Milan (Italy). 14 – 16 June, 2017, p 28.
- CRISPR/Cas9 genome editing in melanoma cells: new insight of RUNT domain - Cheri S., Zipeto D., Deiana M., Serena M., Parolini F., Gandini A., Mina M., Mutascio S., Visser A., Mottes M., Dalle Carbonare L., Valenti M. T. – Abstract presented at 6th Sardinian International Summer School "From Genome-wide association studies (GWAS) to function" - Pula, Italy. 12 – 16 June, 2017, p 4.
- CRISPR/Cas9 for the Study of the Interactions between Viruses and Host - Parolini F., Mutascio S., Serena M., Fochi S., Romanelli M. G., Zipeto D. - Abstract presented at AICC congress 'The future of cancer therapy: the genome editing era' – Catanzaro (Italy). 8 – 9 June, 2017, p 47.
- A CRISPR/Cas9 based approach to study the implication of HTLV regulatory proteins in the NF- κ B modulation – Fochi S., Mutascio S., Parolini F., Zipeto D., Romanelli M. G. - Abstract presented at AICC congress 'The future of cancer therapy: the genome editing era' – Catanzaro (Italy). 8 – 9 June, 2017, p 37.
- CRISPR/Cas9 mediated knock-out of RUNX2 in melanoma cells - Valenti M. T., Zipeto D., Deiana M., Serena M., Parolini F., Cheri S., Gandini A., Mina M., Mutascio S., Viser A., Dalle Carbonare L. - Abstract presented at AICC congress 'The future of cancer therapy: the genome editing era' – Catanzaro (Italy). 8 – 9 June, 2017, p 16.
- CRISPR/Cas9 as a tool for the study of the interactions between viruses and host – Parolini F., Mutascio S., Serena M., Fochi S., Romanelli M. G., Zipeto D. - Abstract presented at "Primavara Dermatologica Ieseana" Iasi (Romania). 29 March - 2 April 2017, p 72-73.